

# Cat<sup>®</sup> Gas Generator Set

## Ratings Summary – 60 Hz



### Natural Gas<sup>1)</sup> Continuous

| Model     | rpm  | Emission Level (Nox) <sup>2)</sup> |          | Aftercooler Temperature |     | Electric Power <sup>3)</sup><br>@ 1.0 pf<br>kWe | Efficiency <sup>4)</sup>   |                         |                       |
|-----------|------|------------------------------------|----------|-------------------------|-----|---|----------------------------|-------------------------|-----------------------|
|           |      | mg/Nm <sup>3</sup>                 | g/bhp-hr | °C                      | °F  |   | Electrical Efficiency<br>% | Thermal Efficiency<br>% | Total Efficiency<br>% |
| G3406     | 1800 | 9176                               | 21.6     | –                       | –   | 155   | 30.1                       | 57.3                    | 87.4                  |
| G3406     | 1800 | 8269                               | 19.7     | 54                      | 130 | 217   | 33.5                       | 52.9                    | 86.4                  |
| G3412     | 1800 | 8566                               | 22.1     | –                       | –   | 253   | 30.3                       | 60.9                    | 91.2                  |
| CG132B-8  | 1800 | 500                                | 1.0      | 45                      | 113 | 400   | 42.0                       | 45.2                    | 87.2                  |
| G3412     | 1800 | 10624                              | 25.7     | 54                      | 130 | 403   | 33.4                       | 54.3                    | 87.7                  |
| G3412C    | 1800 | 800                                | 1.9      | 54                      | 130 | 453   | 35.3                       | 47.1                    | 82.4                  |
| CG132B-12 | 1800 | 500                                | 1.0      | 45                      | 113 | 600   | 42.2                       | 45.9                    | 88.1                  |
| CG132B-16 | 1800 | 500                                | 1.0      | 45                      | 113 | 800   | 42.4                       | 45.7                    | 88.1                  |
| CG170-12  | 1500 | 500                                | 1.0      | 40                      | 104 | 1125  | 40.4                       | 45.8                    | 86.2                  |
| CG170-12  | 1500 | 500                                | 1.0      | 40                      | 104 | 1200  | 43.4                       | 43.2                    | 86.6                  |
| G3516B    | 1800 | 500                                | 1.0      | 54                      | 130 | 1318  | 35.7                       | 50.2                    | 85.9                  |
| G3512H    | 1500 | 500                                | 1.0      | 54                      | 130 | 1500  | 44.6                       | 42.0                    | 86.6                  |
| CG170-16  | 1500 | 500                                | 1.0      | 40                      | 104 | 1500  | 40.4                       | 46.4                    | 86.8                  |
| CG170-16  | 1500 | 500                                | 1.0      | 40                      | 104 | 1560  | 43.0                       | 43.8                    | 86.8                  |
| G3516C    | 1800 | 443                                | 1.0      | 54                      | 130 | 1675  | 37.7                       | 48.4                    | 86.1                  |
| CG170-20  | 1500 | 500                                | 1.0      | 40                      | 104 | 2000  | 43.4                       | 43.3                    | 86.7                  |
| G3516H    | 1500 | 500                                | 1.0      | 48                      | 119 | 2008  | 45.0                       | 41.1                    | 86.1                  |
| G3520C    | 1800 | 446                                | 1.0      | 54                      | 130 | 2077  | 37.3                       | 49.4                    | 86.7                  |
| G3520H    | 1500 | 500                                | 1.0      | 48                      | 119 | 2500  | 45.4                       | 41.0                    | 86.4                  |
| CG260-12  | 900  | 500                                | 1.0      | 40                      | 104 | 3000  | 43.9                       | 42.1                    | 86.0                  |
| CG260-16  | 900  | 500                                | 1.0      | 40                      | 104 | 4000  | 43.8                       | 42.4                    | 86.2                  |
| CG260-16  | 900  | 500                                | 1.0      | 40                      | 104 | 4050  | 44.3                       | 42.6                    | 86.9                  |
| G16CM34   | 720  | 500                                | 1.0      | 45                      | 113 | 6585  | 46.4                       | 46.0                    | 92.4                  |
| G20CM34   | 720  | 500                                | 1.0      | 45                      | 113 | 9830  | 48.0                       | 45.1                    | 93.1                  |

### Natural Gas<sup>1)</sup> Standby

| Model      | rpm  | Emission Compliance                       | kWe<br>@ 0.8 pf | NFPA 110<br>Compliant | Max Load Step<br>% | UL2200 |
|------------|------|---|-----------------|-----------------------|--------------------|--------|
| DG175-1 GC | 1800 | US EPA Stationary Emergency Certified     | 175             | Yes                   | 100                | Yes    |
| DG200-1 GC | 1800 | US EPA Stationary Emergency Certified     | 200             | Yes                   | 100                | Yes    |
| DG230-1 GC | 1800 | US EPA Stationary Emergency Certified     | 230             | Yes                   | 100                | Yes    |
| DG250-1 GC | 1800 | US EPA Stationary Emergency Certified     | 250             | Yes                   | 100                | Yes    |
| DG275-1 GC | 1800 | US EPA Stationary Emergency Certified     | 275             | Yes                   | 100                | Yes    |
| DG300-1 GC | 1800 | US EPA Stationary Emergency Certified     | 300             | Yes                   | 100                | Yes    |
| DG350-1 GC | 1800 | US EPA Stationary Emergency Certified     | 350             | Yes                   | 100                | Yes    |
| DG400-1 GC | 1800 | US EPA Stationary Emergency Certified     | 400             | Yes                   | 100                | Yes    |
| DG450-1 GC | 1800 | US EPA Stationary Emergency Certified     | 450             | Yes                   | 100                | Yes    |
| G3412C     | 1800 | NSPS Compliant Capable <sup>5)</sup>      | 500             | No                    | 100                | No     |
| G3412      | 1800 | US EPA Stationary Emergency Certified     | 500             | Yes                   | 100                | Yes    |
| G3512      | 1800 | US EPA Stationary Non-Emergency Certified | 750             | Yes                   | 100                | Yes    |
| G3512      | 1800 | US EPA Stationary Non-Emergency Certified | 1000            | Yes                   | 100                | Yes    |
| G3516B     | 1800 | NSPS Compliant Capable <sup>5)</sup>      | 1300            | No                    | 25                 | No     |
| G3516C     | 1800 | NSPS Compliant Capable <sup>5)</sup>      | 1500            | No                    | 25                 | No     |
| G3520      | 1800 | US EPA Stationary Non-Emergency Certified | 2000            | Yes                   | 100                | Yes    |
| G3520      | 1800 | US EPA Stationary Non-Emergency Certified | 2500            | Yes                   | 100                | Yes    |

# Gas Generator Set Product Ratings Summary – 60 Hz



## Biogas, Landfill Gas, Sewage Gas <sup>1)</sup>

| Model     | rpm  | Emission Level (Nox) <sup>2)</sup> |          | Aftercooler Temperature |     | Electric Power <sup>3)</sup><br>@ 1.0 pf<br>kWe | Efficiency <sup>4)</sup> |                    |                  |
|-----------|------|------------------------------------|----------|-------------------------|-----|---|--------------------------|--------------------|------------------|
|           |      | mg/Nm <sup>3</sup>                 | g/bhp-hr | °C                      | °F  |   | Electrical Efficiency    | Thermal Efficiency | Total Efficiency |
|           |      |                                    |          |                         |     |   | %                        | %                  | %                |
| G3412     | 1800 | 7051                               | 16.4     | –                       | –   | 194   | 26.5                     | 62.9               | 89.4             |
| CG132B-8  | 1800 | 500                                | 1.0      | 45                      | 113 | 400   | 41.7                     | 43.3               | 85.0             |
| CG132B-12 | 1800 | 500                                | 1.0      | 45                      | 113 | 600   | 41.7                     | 43.6               | 85.3             |
| CG132B-16 | 1800 | 500                                | 1.0      | 45                      | 113 | 800   | 41.9                     | 43.3               | 85.2             |
| G3516A    | 1200 | 500                                | 1.0      | 54                      | 130 | 824   | 31.0                     | 47.7               | 78.7             |
| G3516A    | 1200 | 396                                | 0.9      | 54                      | 130 | 1012  | 38.4                     | 37.8               | 76.2             |
| CG170-12  | 1500 | 500                                | 1.0      | 50                      | 122 | 1200  | 42.8                     | 42.5               | 85.3             |
| CG170-16  | 1500 | 500                                | 1.0      | 50                      | 122 | 1560  | 42.3                     | 42.8               | 85.1             |
| G3520C    | 1200 | 439                                | 1.0      | 54                      | 130 | 1622  | 39.8                     | 40.9               | 80.8             |
| G3520C    | 1500 | 500                                | 1.0      | 54                      | 130 | 1936  | 39.1                     | 41.4               | 80.5             |
| CG170-20  | 1500 | 500                                | 1.0      | 50                      | 122 | 2000  | 42.7                     | 43.2               | 85.9             |
| CG260-16  | 900  | 500                                | 1.0      | 40                      | 104 | 3510  | 43.2                     | 38.5               | 81.7             |

### Notes:

- <sup>1)</sup> Bio Gases at LHV = 18.0-23.3 MJ/Nm<sup>3</sup> (457 to 593 Btu/cu.ft); MN=130-134. Natural Gas at 34.56 MJ/Nm<sup>3</sup> (905 Btu/cu.ft); MN = 80.
- <sup>2)</sup> Emissions are based on the engine operating at steady state conditions and adjusted to the specified NOx level at 100% load. Values are engine out without exhaust aftertreatment and subject to nominal tolerance based on fuel, site and operating conditions.
- <sup>3)</sup> Power output based on ISO 3046/1 conditions.
- <sup>4)</sup> Electrical efficiency based on 1.0 pf, ISO 3046/1. Thermal efficiency based on nominal tolerance (+/-8% for CG line, +/- 10% for G3300/3400/3500/GCM34 line). Thermal efficiency includes heat rejection from jacket water circuit and exhaust gas at LHV to 120°C (CG series using Bio Gas: 150°C for CG 132/170, 180°C for CG260) and 80°C for GCM34.
- <sup>5)</sup> NSPS Compliant Capable with addition of three-way catalyst or oxidation catalyst.

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